



# Electrochemical & Water Quality Analyzer

Variety & Reliability

PEAK Instruments Inc.

# About Us

PEAK Instruments Inc. is located in Houston, TX-77084, where our head office and warehouse are also located, which is a high tech enterprise integrated with R&D, production, sales and service of spectrophotometers, pH/conductivity/DO/ion meter, electrode, balance colorimeter and turbidity meter, which have wide applications in the following areas: metallurgy, pharmacy, food, health, institutes, biological chemistry, life science, petrochemical industry, quality control, environmental protection, electro-chemistry and water quality analysis, etc..

We adopt the newest microcomputer technology and electronic control system, optimize optical system and structure which can both extend new functions and ensure the accuracy, sensitivity, stability and durability. We have full ranges of spectrophotometers like UV, visible, single beam, double beam, adjustable slit, xenon and big capacitive touch screen with high resolution (1024\*600) and high sensitivity, and many kinds of electrochemical & water quality analyzers.

We have professional teams for management, R&D, production, QC, sales and technical support, which make sure to provide excellent products, good prices and efficient service for our global customers. Our factory has obtained 46 patents and CE, ISO9001, ISO14001 certificates driven by innovation and joint efforts of all staff.



**We** continuously absorb new ideas, promote product quality and improve our service in accordance with the concept of Innovation, quality and service. We have steady growth and good reputation in the markets of more than 30 countries, like USA, Canada, Mexico, Spain, Poland, Turkey, Russia, Argentina, Brazil, Chile, Peru, Ecuador, India, Indonesia, Pakistan, Korea, Saudi Arabia and South Africa.



- ◆ Our Promise  
Answer customers and provide solutions within 24 hours.
- ◆ Our Mission  
Provide high quality products and services.
- ◆ Our Vision  
To be a well-known brand for analytical instruments.

PEAK Instruments Inc. looks forward to cooperating with you.

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# T-710 Series pH meter



## Main Features

- 7 inch color capacitive screen with high resolution (1024\*600) and sensitivity, which can show more parameters, more intuitive and simpler to read data.
- English and Chinese operating system, humanized design with adjustable screen brightness. System language can be customized according to specific requirements.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- Big built-in memory can store 1000 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- Can set up pH measurement modes of high purity water and pure water with ammonia to meet the requirements of power, petrochemical and other industries (only for model T-710P).
- Auto recognition of standard pH buffer solutions and there are three kinds of standard buffers for option: USA series, NIST series and China series.
- With standard Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission to PC and cell phone via wireless Bluetooth.
- Smart judge of electrode status to ensure accurate use for operators.
- IP54 dustproof and waterproof housing.

# T-710 Series pH meter

## Specifications

MODEL	T-710L	T-710P	T-710H	
Description	General laboratory bench pH meter, suitable for measuring moderate ionic strength solutions, such as surface water, lake water and industrial waste water. It can be used in most of the areas related to water quality analysis.	Measure pH value of high purity water in power, petrochemical and other industries.	High precision laboratory bench pH meter, suitable for measuring solution of weak ionic strength and low turbid liquid solutions. It can be used in the high-precision pH measurements, such as scientific research, quality control, biotechnology, fine chemicals and acid-base titration.	
Display	7-inch capacitive touch screen with resolution 1024*600			
pH	Measurement range	(-2.00 ~ 19.99)pH	(-2.00 ~ 19.99)pH	(-2.000 ~ 19.999)pH
	Resolution	0.1/0.01 pH	0.1/0.01 pH	0.01/0.001 pH
	Accuracy	±0.02 pH	±0.02 pH	±0.01pH
	Input current	≤1×10 <sup>-12</sup> A	≤1×10 <sup>-12</sup> A	≤1×10 <sup>-12</sup> A
	Input impedance	≥1×10 <sup>12</sup> Ω	≥1×10 <sup>12</sup> Ω	≥1×10 <sup>12</sup> Ω
	Stability	±0.01 pH/3h	±0.01 pH/3h	±0.01 pH/3h
	Temperature compensation	(0 ~ 100) °C(auto or manual)	(0 ~ 100) °C(auto or manual )	(0 ~ 100) °C(auto or manual )
mV	Measurement range(mV/ORP/EH)	-1999.9mV ~ 0 ~ 1999.9mV		
	Resolution	1mV		0.1mV
	Accuracy	±0.1% FS		±0.03%% FS
Temperature	Range	-10 °C ~ 110 °C		
	Resolution	0.1 °C		
	Accuracy	±0.5 °C		
Calibration		Automatic (1, 2, 3 points) USA, NIST and China standards		
Others	Data storage	1000 sets		
	Power	DC12V/1A		
	Communication interface	USB(A), USB(B) , Wireless Bluetooth module		
	Dimensions & Weigh	240×170×70mm/600g		
Working Conditions	Temperature	15 ~ 30 °C		
	Humidity	≤85%		
	IP grade	IP54		

## Standard Configuration

1.T-710 pH meter	1 unit
2.Composite electrode	1 pc
3.Rotary electrode holder	1 pc
4.pH calibration buffer	1 set
5.12V power adapter	1 pc
6.Brief operating manual	1 copy
7.USB flash drive	1 pc

# T-711 Series Conductivity Meter



## Main Features

- 7 inch color high resolution( 1024\*600) capacitive touch screen, high sensitivity, complete parameter display, intuitive, easy to use and simple.
- Automatic calibration, automatic temperature compensation, data storage, USB output, clock display, wireless print,function setting and self-diagnose etc.
- Built-in bilingual operating system in Chinese and English, humanized operation design, with adjustable screen brightness.
- Built-in mass storage can store 1000 sets of measurement data, data can be stored and transferred to USB and opened by Excel, more convenient for customers to edit.
- Automatically recognize 8 kinds of conductivity standard solution. User can choose any one from two series of solutions: USA series and China series.
- With standard Bluetooth module and support wireless printing to make operations more convenient for users. Optional PC software and cell phone APP.
- Adopt advanced conductivity measurement technology, one point calibration of conductivity electrode can meet the measuring accuracy requirements for test  $0.5\mu\text{S}/\text{cm} \sim 200\text{mS}/\text{cm}$ .
- Able to switch between conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
- Automatic temperature compensation conductivity electrode , and the measurement result is fast and precise.
- Can intelligently judge the electrode status to ensure that the test result is accurate.
- Dustproof and waterproof meter meets IP54 standards.



# T-711 Series Conductivity Meter

## Specifications

MODEL	T-711L	T-711H	T-711P	T-711C
Description	Lab conductivity meter. Measure the conductivity of common water solutions, especially widely used in the areas of education and scientific research.	High precision conductivity meter. Suitable for high precision conductivity measurement in scientific research, quality control, biotechnology and fine chemistry industry.	High purity water conductivity meter. Measure the conductivity of reverse osmosis water, distilled water and high purity water in power plants, microelectronics and pharmaceutical industries	High concentration conductivity meter
Measuring range	Conductivity: (0.00~20.00) $\mu\text{S}/\text{cm}$ (20.0~200.0) $\mu\text{S}/\text{cm}$ (200~2000) $\mu\text{S}/\text{cm}$ (2.00~20.00) $\text{mS}/\text{cm}$ (20.0~200.0) $\text{mS}/\text{cm}$ Resistivity: (0 ~ 100) $\text{M}\Omega \cdot \text{cm}$ TDS: (0 ~ 100) $\text{g}/\text{L}$ Salinity: (0 ~ 100) ppt		Conductivity: (0.00~20.00) $\mu\text{S}/\text{cm}$ (20.0~200.0) $\mu\text{S}/\text{cm}$ (200~2000) $\mu\text{S}/\text{cm}$ (2.00~20.00) $\text{mS}/\text{cm}$ (20.0~200.0) $\text{mS}/\text{cm}$ (200~2000) $\text{mS}/\text{cm}$ Resistivity: (0 ~ 100) $\text{M}\Omega \cdot \text{cm}$ TDS: (0 ~ 100) $\text{g}/\text{L}$ Salinity: (0 ~ 100) ppt	
Resolution	0.01/0.1/1 $\mu\text{S}/\text{cm}$ 0.01/0.1 $\text{mS}/\text{cm}$			
Accuracy	Electrode: $\pm 1.0\%$ FS Instrument: $\pm 1.50\%$ FS	Electrode: $\pm 0.5\%$ FS Instrument: $\pm 1.00\%$ FS		
Temp compensation range	(0 ~ 100) $^{\circ}\text{C}$ (Automatic)			
Electrode constant	0.1/1/10 $\text{cm}^{-1}$			
Temp.Measuring range	-10 $^{\circ}\text{C}$ ~ 110 $^{\circ}\text{C}$			
Resolution	0.1 $^{\circ}\text{C}$			
Accuracy	5 ~ 60 $^{\circ}\text{C}$ : $\pm 0.5^{\circ}\text{C}$ Others: $\pm 1.0^{\circ}\text{C}$	5 ~ 60 $^{\circ}\text{C}$ : $\pm 0.3^{\circ}\text{C}$ Others: $\pm 0.5^{\circ}\text{C}$		
Data storage	1000 sets			
Storage content	Measurement series number, measuring value, temperature, ATC or MTC status, date and time			
Power	DC12V/1A			
Communication	Wireless Bluetooth, USB			
Dimensions & Weight	240 × 170 × 70mm/600g			
Ambient temperature	5 ~ 35 $^{\circ}\text{C}$			
Ambient humidity	$\leq 80\%$			
IP grade	IP54			

## Standard Configuration

- |                                     |        |
|-------------------------------------|--------|
| 1. T-711 conductivity meter         | 1 pc   |
| 2. Composite conductivity electrode | 1 pc   |
| 3. Power adapter                    | 1 pc   |
| 4. Electrode holder and base        | 1 set  |
| 5. Instruction manual in USB        | 1 copy |

# T-712 Lab DO Meter



Laboratory bench Dissolved Oxygen meter, which is suitable for aquaculture, water source monitoring, waste water treatment and environmental protection monitoring and other industries, also widely used in education and scientific research fields.

## Main Features

- 7 inch color capacitive screen with high resolution (1024\*600) and sensitivity, which can show more parameters, more intuitive and simpler to read data.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- English and Chinese operating system, humanized design with adjustable screen brightness.
- Built-in big memory can store 1000 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- DO mode has functions of ATC, auto salinity compensation and auto pressure compensation.
- With standard Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional PC software and cell phone APP.
- New structure polarographic DO electrode can measure temperature, salinity and dissolved oxygen simultaneously, equipped with special DO electrode calibration sleeve, only need 3~5 minutes for polarization.
- Combined diaphragm cap makes it extremely convenient to replace the sensitive membrane just by screwing the new cap to the electrode.
- IP54 dustproof and waterproof.
- Optional real time data transmission to Android cell phone via wireless Bluetooth.
- Bench DO meter is polarographic instrument and suggested to be used with our magnetic stirrer.

## Specifications

MODEL	T-712
Display	7-inch capacitive touch screen
Parameters	Concentration, Saturation, Temperature
DO Range	0.00 ... 20 mg/L (ppm)
Resolution	0.01/0.1
DO Accuracy	± 0.3% ± 0.4mg/L
DO Saturation	0.0 ... 200%
Saturation Resolution	0.1%
Saturation Accuracy	±2.0%FS
Temperature Measuring Range	(-10 ~ 110)°C
Temperature Resolution	0.1°C
Temperature Accuracy	±0.1°C
Temperature compensation range	(0 ~ 100)°C (automatic)
Salinity compensation range	(0.0 ~ 50.0)g/L
Air pressure compensation range	(80 ~ 105)kPa (automatic)
Air pressure resolution	1
Air pressure Accuracy	± 2%
Stability	(±0.07mg/L)/1h
Response time	≤30s (25°C, 90% response)
Data Storage	1000 sets, USB for huge storage
Communication Interfaces	USB, Bluetooth
Working Conditions	Temperature:5-40° Humidity: 5-85%
Power Requirements	12V1A(with power adapter)
Size &Weight	240 x 170 x 70mm/600g

## Standard Configuration

- |                                     |          |
|-------------------------------------|----------|
| 1. T-712 DO Meter                   | 1 unit   |
| 2. Composite DO electrode           | 1 pc     |
| 3. Rotary electrode holder          | 1 pc     |
| 4. 12V power adapter for instrument | 1 pc     |
| 5. Membrane cap                     | 3 pcs    |
| 6. DO electrode electrolyte (30ml)  | 1 bottle |
| 7. User manual in USB               | 1 copy   |

# T-713 Series Ion Concentration Meter



## Main Features

- Test ions in aqueous solutions with the features of simple sample process, quick and accurate measurements.
- 7 inch color capacitive screen with high resolution (1024\*600) and sensitivity, which can show more parameters, more intuitive and simpler to read data.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- English and Chinese operating system, humanization design with adjustable screen brightness.
- Big built-in memory can store 1000 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- Can test electric potential, pH, ORP, ion concentration and temperature
- Quick switch between different units: g/L, mol/L, ppm.
- Smart judge of electrode status to ensure accurate use for operators.
- With standard Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission to PC and cell phone via wireless Bluetooth.

Description	Model	Applications
Fluoride ion meter	T-713F	Test and analysis of the fluoride in drinking water, surface water, sea water, living sewage and industrial wastewater and the fluorine ion in mineral , organic, and biological materials.
Sodium ion meter	T-713Na	Suitable for measurement of sodium ion and pH value in natural water, boiler water and industrial drainage, especially for the quality monitoring of high purity water in power plant.

# T-713 Series Ion Concentration Meter

Description	Model	Applications
Chloride ion meter	T-713Cl	Measure chloride ion and pH value in drinking water, food and sewage.
Calcium ion meter	T-713Ca	Test calcium ion and pH value of water solutions. Widely used in the analysis and research of water quality, biochemistry and biomedicine.
Bromide ion meter	T-713Br	Test bromide ion and pH value in drinking water, food and sewage.
Nitrate ion meter	T-713NO	Test nitrate ion and pH value in drinking water, food and sewage.
Potassium ion meter	T-713K	Measure potassium ion and pH value in drinking water, food and sewage.
Ammonia Ion Meter	T-713NH	Test ammonia & nitrogen and pH value in drinking water, food and sewage.
Copper ion meter	T-713Cu	Test copper ion and pH value in food, beverage, electroplating industry and sewage.
Iodide ion meter	T-713I	Test iodide ion and pH value in drinking water, food and sewage.

## Specifications

Measurement Range	pH/pX	(-2.00~20.00) pH, (0.00~14.00) pX
	mV	(-1999.9~1999.9) mV
	Concentration	(0~19990), optional units: mol/L, g/L, ppm
	Temperature	(-10.0~110.0)°C
Resolution	pH/pX	0.01pH/pX
	mV	1mV
	Concentration	4 significant digits(expressed in scientific notation)
	Temperature	0.1°C
Accuracy	pH/pX	0.02pH/pX
	mV	0.1%FS
	Concentration	±0.3%
	Temperature	±0.1°C
Power Supply		12V/1A, with standard power adapter
Dimensions & Weight		240×170×70mm, 600g

## Standard Configuration

1. Ion concentration meter	1 unit	5. Rotary electrode holder	1 pc
2. Ion electrode	1 pc	6. 12V Power adapter	1 pc
3. Reference electrode	1 pc	7. User manual	1 copy
4. Temperature electrode	1 pc	8. USB flash drive	1 pc

# T-720 Precise pH/Conductivity Meter



Suitable for high precision pH/conductivity measurements in scientific research, quality control, biotechnology and fine chemistry industry.

## Main Features

- 7 inch color capacitive screen with high resolution (1024\*600) and sensitivity, which can show more parameters, more intuitive and simpler to read data.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- English and Chinese operating system, humanized design with adjustable screen brightness.
- Built-in big memory can store 1000 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- Auto recognition of 8 kinds of standard conductivity solutions and there are two series of standard solutions for option: USA series and China series.
- With standard Bluetooth module and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission to PC and cell phone via wireless Bluetooth.
- Adopt advanced conductivity measurement technology, one point calibration can meet the measuring accuracy requirements for test  $0.5\mu\text{ S/cm} \sim 200\text{mS/cm}$ .
- Able to switch between conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
- Auto recognition of standard pH buffers. There are three series of standard buffer solutions for option: USA, NIST and China series.
- Smart judge of electrode status to ensure accurate use for operators.
- IP54 dustproof and waterproof housing.

# T-720 Precise pH/Conductivity Meter

## Specifications

MODEL	T-720	
pH	Measuring range	(-1.99 ~ 19.99) pH
	Resolution	0.1/0.01 pH
	Accuracy	±0.02 pH
	Input current	≤1×10 <sup>-12</sup> A
	Input impedance	≥1×10 <sup>12</sup> Ω
	Stability	±0.01 pH/3h
	Temp compensation	(0 ~ 100) °C (auto or manual)
mV	(mV/ORP/EH)Measuring range(mV/ORP/EH)	-1999.9mV ~ 0 ~ 1999.9mV
	Resolution	1mV
	Accuracy	±0.1% FS
Conductivity	Measuring range	Conductivity: (0.00~20.00) μS/cm (20.0~200.0) μS/cm (200~2000) μS/cm (2.00~20.00) mS/cm (20.0~200.0) mS/cm (200~2000) mS/cm (K=10) Resistivity: (0 ~ 100) MΩ·cm TDS: (0 ~ 100) g/L Salinity: (0 ~ 100) ppt
	Resolution	0.01/0.1/1μS/cm 0.01/0.1/1 mS/cm
	Accuracy	Electrode: ±0.5% FS, Instrument: ±0.80%FS
	Temp. compensation range	(0 ~ 100) °C (auto)
	Electrode constant	0.1/1/10 cm <sup>-1</sup>
Temperature	Measuring range	-10 °C ~ 110 °C
	Resolution	0.1 °C
	Accuracy	5~ 60 °C: ±0.4 °C Others: ±0.8 °C
Other Technical Parameters	Data storage	1000 sets
	Power requirements	DC12V/1A
	Communication connectors	Bluetooth,USB
	Dimensions&Weight	240 × 170 × 70mm/600g
Working Conditions	Ambient temperature	5 ~ 35 °C
	Ambient humidity	≤85%
	IP grade	IP54

## Standard Configuration

1.T-720 precise pH/conductivity meter	1 unit	5.Standard pH buffer	
2.Plastic pH/ATC composite electrode	1 pc	(pH4.00, pH6.86, pH9.18/50ml)	3 bottles
3.Conductivity electrode	1 pc	6.12V power adapter for instrument	1 pc
4.Rotary electrode holder	1 pc	7.Brief operation manual	1 copy

# T-721 Precise pH/DO Meter



Precise measurements of pH/DO in fields of biotechnology, aquaculture, power plant and environmental protection, and also more widely used in areas of education and scientific research.

## Main Features

- 7 inch color capacitive screen with high resolution (1024\*600) and sensitivity, which can show more parameters, more intuitive and simpler to read data.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- English and Chinese operating system, humanized design with adjustable screen brightness.
- Built-in big memory can store 1000 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- DO mode has functions of ATC, auto salinity compensation and auto pressure compensation.
- New structure polarographic DO electrode can measure temperature, salinity and dissolved oxygen simultaneously, equipped with special DO electrode calibration sleeve, only need 3~5 min for polarization.
- Combined diaphragm cap makes it extremely convenient to replace the sensitive membrane just by screwing the new cap to the electrode.
- Auto recognition of standard pH buffer solutions and there are three kinds of standard buffers for option: USA series, NIST series and China series.
- With standard Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission to PC and cell phone via wireless Bluetooth.
- IP54 dustproof and waterproof housing.
- DO measurement is polarographic and suggested to be used with our magnetic stirrer or other appropriate models chosen by customers.



# T-721 Precise pH/DO Meter

## Specifications

MODEL	T-721	
pH	Measuring range	(-1.99~ 19.99) pH
	Resolution	0.1/0.01 pH
	Accuracy	±0.02 pH
	Input current	≤1×10 <sup>-12</sup> A
	Input impedance	≥1×10 <sup>12</sup> Ω
	Stability	±0.01 pH /3h
	Temp compensation	(0 ~ 100) °C (auto or manual)
mV	(mV/ORP/EH)Measuring range(mV/ORP/EH)	-1999.9mV ~ 0 ~ 1999.9mV
	Resolution	1mV
	Accuracy	±0.1% FS
Dissolved Oxygen	Measuring range	(0 ~ 20.00) mg/L(ppm) (0 ~ 200.0)%
	Resolution	0.1/0.01 mg/L(ppm) 1/0.1%
	Accuracy	±0.3%, ±0.40 mg/L
	Response time	≤30 s (25 °C, 90% response)
	Residual current	≤0.1 mg/L
	Temp compensation range	(0 ~ 100) °C (automatic)
	Salinity compensation range	(0 ~ 45) ppt (automatic)
	Air pressure compensation	(80 ~ 105) kPa (automatic)
	Electrode type	Polarographic
Temperature	Measuring range	-10 °C ~ 110 °C
	Resolution	0.1 °C
	Accuracy	5~ 60 °C: ±0.4 °C Others: ±0.8 °C
Other Technical Parameters	Data storage	1000 groups
	Storage contents	Measurement series number, measuring value, temperature, ATC or MTC state, measuring date and time
	Power requirements	DC12V/1A
	Communication connectors	Bluetooth, USB
Working Conditions	Dimensions&Weight	240 × 170 × 70mm/600g
	Ambient temperature	5 ~ 35 °C
	Ambient humidity	≤85%
	IP grade	IP54

## Standard Configuration

1. T-721 pH/ DO meter	1 unit	6. 12V power adapter	1 pc
2. Plastic pH/ATC composite electrode	1 pc	7. Membrane cap	3 pc
3. DO electrode	1 pc	8. DO electrode electrolyte(30ml)	1 bottle
4. Rotary electrode holder	1 pc	9. USB with user manual	1 pc
5. standard buffer solution(pH4.00, pH6.86, pH9.18/50ml)	3 bottles		

# T-723 Precise Conductivity/DO Meter



For high-precision measurements of the conductivity/DO in laboratory. Widely used in the fields of biotechnology, aquaculture, power plants and environmental protection.

## Main Features

- 7 inch color capacitive screen with high resolution (1024\*600) and sensitivity, which can show more parameters, more intuitive and simpler to read data.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- English and Chinese operating system(or custom Language according to specific requirements), humanized design with adjustable screen brightness.
- Built-in big memory can store 1000 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- DO mode has functions of ATC, auto salinity compensation and auto pressure compensation.
- New structure polarographic DO electrode can measure temperature, salinity and dissolved oxygen simultaneously, equipped with special DO electrode calibration sleeve, only need 3~5 min for polarization.
- Combined diaphragm cap makes it extremely convenient to replace the sensitive membrane just by screwing the new cap to the electrode.
- Auto recognition of 8 kinds of standard conductivity solutions and there are two series of standard solutions for option: USA series and China series.
- Able to switch between conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
- With standard Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission to PC and cell phone via wireless Bluetooth.
- IP54 dustproof and waterproof housing.

# T-723 Precise Conductivity/DO Meter

## Specifications

MODEL	T-723	
Conductivity	Measuring range	Conductivity:
		(0.00~20.00) $\mu\text{S/cm}$ (20.0~200.0) $\mu\text{S/cm}$ (200~2000) $\mu\text{S/cm}$ (2.00~20.00) $\text{mS/cm}$ (20.0~200.0) $\text{mS/cm}$ (200~2000) $\text{mS/cm}$ (K=10)
		Resistivity: (0 ~ 100) $\text{M}\Omega\cdot\text{cm}$
		TDS: (0 ~ 100) $\text{g/L}$
		Salinity: (0 ~ 100) ppt
	Resolution	0.01/0.1/1 $\mu\text{S/cm}$ 0.01/0.1/1 $\text{mS/cm}$
	Accuracy	Electrode: $\pm 0.5\%$ FS, Instrument: $\pm 0.80\%$ FS
	Temp compensation	(0 ~ 100) $^{\circ}\text{C}$ (automatic)
	Electrode constant	0.1/1/10 $\text{cm}^{-1}$
	Reference temperature	25 $^{\circ}\text{C}$ , 20 $^{\circ}\text{C}$ , 18 $^{\circ}\text{C}$
Dissolved Oxygen	Measuring range	(0 ~ 20.00) $\text{mg/L(ppm)}$ , (0 ~ 200.0)%
	Resolution	0.1/0.01 $\text{mg/L(ppm)}$ , 1/0.1 %
	Accuracy	$\pm 0.3\%$ , $\pm 0.40$ $\text{mg/L}$
	Response time	$\leq 30\text{s}$ (25 $^{\circ}\text{C}$ , 90% response)
	Residual current	$\leq 0.1$ $\text{mg/L}$
	Temperature compensation	(0 ~ 100) $^{\circ}\text{C}$ (automatic)
	Salinity compensation	(0 ~ 45) ppt (automatic)
	Pressure compensation	(80 ~ 105) $\text{kPa}$ (automatic)
	Automatic calibration	Air saturated by water, water saturated by air
	Electrode type	Polarographic
Temperature	Measuring range	-10 $^{\circ}\text{C}$ ~ 110 $^{\circ}\text{C}$
	Resolution	0.1 $^{\circ}\text{C}$
	Accuracy	5~ 60 $^{\circ}\text{C}$ : $\pm 0.4$ $^{\circ}\text{C}$ Others: $\pm 0.8$ $^{\circ}\text{C}$
Other Parameters	Data storage	1000 groups
	Storage contents	Measurement series number, measuring value, temperature, ATC or MTC status, date and time
	Power	DC12V/1A
	Communications	USB, wireless Bluetooth
	Dimensions & Weight	240 × 170 × 70mm/600g
Working Conditions	Ambient temperature	10 ~ 30 $^{\circ}\text{C}$
	Ambient humidity	$\leq 85\%$
	IP grade	IP54

## Standard Configuration

1. Benchtop conductivity/DO meter	1 unit	5. Membrane cap	3 pcs
2. Conductivity electrode with ATC	1 pc	6. DO electrode electrolyte (30ml)	1 bottle
3. Rotary electrode holder	1 pc	7. 12V power adapter	1 pc
4. Dissolved Oxygen Electrode	1 pc	8. Brief operating manual (soft copy in USB)	1 copy

# T-730 pH/mV/Conductivity/DO Meter



Multi-parameter analyzer for high precision measurement in laboratory covering 10 kinds of electrochemical parameters like pH, conductivity and dissolved oxygen. Suitable for the fields of petroleum, chemical, pharmacy, power plants and environmental protection, also widely used in areas of education and scientific research.

## Main Features

- 7 inch color capacitive screen with high resolution (1024\*600) and sensitivity, which can show more parameters, more intuitive and simpler to read data.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- English and Chinese operating system, humanized design with adjustable screen brightness.
- Built-in big memory can store 1000 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- DO mode has functions of ATC, auto salinity compensation and auto pressure compensation.
- New structure polarographic DO electrode can measure temperature, salinity and dissolved oxygen simultaneously, equipped with special DO electrode calibration sleeve, only need 3~5 min for polarization.
- Combined diaphragm cap makes it extremely convenient to replace the sensitive membrane just by screwing the new cap to the electrode.
- Auto recognition of 8 kinds of standard conductivity solutions and there are two series of standard solutions for option: USA series and China series.
- Able to switch between conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
- Auto recognition of standard pH buffers. And there are three series of buffer solutions for option: USA series, NIST series, CHINA series.
- With standard Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission to PC and cell phone via wireless Bluetooth.
- IP54 dustproof and waterproof housing.
- DO measurement is polarographic and suggested to be used with our magnetic stirrer or other appropriate models chosen by customers.

# T-730 pH/mV/Conductivity/DO Meter

## Specifications

MODEL	T-730	
pH	Measuring range	(-1.99 ~ 19.99) pH
	Resolution	0.1/0.01 pH
	Accuracy	±0.02 pH
	Input current	≤1×10 <sup>-12</sup> A
	Input impedance	≥1×10 <sup>12</sup> Ω
	Stability	±0.01pH/3h
	Temp compensation	(0 ~ 100) °C (auto or manual )
mV	Measuring range(mV/ORP/EH)	-1999.9mV ~ 0 ~ 1999.9mV
	Resolution	1mV
	Accuracy	±0.1% FS
Conductivity	Measuring range	Conductivity (0.00~20.00) μS/cm (20.0~200.0) μS/cm (200~2000) μS/cm (2.00~20.00) mS/cm (20.0~200.0) mS/cm (200~2000) mS/cm (K=10)
		Resistivity: (0 ~ 100) MΩ·cm
		TDS: (0 ~ 100) g/L
		Salinity: (0 ~ 100) ppt
	Resolution	0.01/0.1/1μS/cm 0.01/0.1/1 mS/cm
	Accuracy	Electrode: ±0.5% FS, Instruments: ±0.80%FS
	Temp compensation	(0 ~ 100) °C (automatic)
	Electrode constants	0.1/1/10 cm <sup>-1</sup>
	Reference temperature	25 °C, 20 °C, 18 °C
	Measuring range	(0 ~ 20.00) mg/L(ppm) (0 ~ 200.0)%
Resolution	0.1/0.01 mg/L(ppm) 1/0.1 %	
Dissolved Oxygen	Accuracy	±0.3%, ±0.40 mg/L
	Response time	≤30s (25 °C, 90%response)
	Residual current	≤0.1 mg/L
	Temp compensation	(0 ~ 100) °C (automatic)
	Salinity compensation	(0 ~ 45) ppt (automatic)
	Pressure compensation	(80 ~ 105) kPa (automatic)
	Automatic calibration	Air saturated by water; water saturated by air
	Electrode type	Polarographic
Temperature	Measuring range	-10 °C ~ 110 °C
	Resolution	0.1 °C
	Accuracy	5~ 60 °C: ±0.4 °C Others: ±0.8 °C
Other Parameters	Data storage	1000 groups
	Storage contents	Measuring value series number, measuring value, temperature, ATC or MTC state, measuring date and time.
	Power requirements	DC12V/1A
	Communications	USB, Wireless Bluetooth
	Dimensions & Weight	240 × 170 × 70mm/600g
Working Conditions	Ambient temperature	5 ~ 35 °C ( grade 0.01)
	Ambient humidity	≤85%
	IP grade	IP54

## Standard Configuration

1. T-730 pH/mV/Conductivity/DO meter	1 unit	7. 12V power adapter	1 pc
2. 360° Rotary electrode holder	1 pc	8. Membrane cap (for DO electrode)	3 pcs
3. Plastic pH/ATC composite electrode	1 pc	9. DO electrode electrolyte (30ml)	1 bottle
4. Conductivity electrode	1 pc	10. Brief operation manual in USB	1 copy
5. DO electrode	1 pc		
6. Standard pH buffer (pH4.00, pH6.86, pH9.18/50ml)	1 set		

# S-610 Series Benchtop pH Meter



## Main Features

- 6.5 inch LCD screen which is intuitive and can show more parameters. Humanized design of operating interface makes operations simpler.
- Omron long lasting and light touch panel can be used more than 100,000 times.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- Built-in big memory can store 500 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- Auto recognition of standard pH buffer solutions and there are three kinds of standard buffers for option: USA series, NIST series and China series.
- Optional Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission to cell phone via wireless Bluetooth.
- Smart judge of electrode status to ensure accurate use for operators.
- IP54 waterproof and dustproof.

# S-610 Series Benchtop pH Meter

## Specifications

MODEL	S-610H	S-610L	S-610P
Display	6.5 inch LCD screen	6.5 inch LCD screen	6.5 inch LCD screen
Parameters	pH, mV, temperature	pH, mV, temperature	pH, mV, temperature
pH Measuring range	-2.000~18.000 pH	-2.00~18.00 pH	-2.00~18.00 pH
pH Resolution	0.001/0.01 pH	0.01/0.1 pH	0.01/0.1 pH
pH Accuracy	±0.01pH	±0.02pH	±0.02pH
Input current	≤2×10 <sup>-12</sup> A	≤2×10 <sup>-12</sup> A	≤2×10 <sup>-12</sup> A
Input impedance	≥1×10 <sup>12</sup> Ω	≥1×10 <sup>12</sup> Ω	≥1×10 <sup>12</sup> Ω
mV Measuring range	-1999.99~1999.99 mV	-1999.99~1999.99 mV	-1999.99~1999.99 mV
mV Resolution	0.1mV	1mV	1mV
mV Accuracy	±0.03%FS	±0.1%FS	±0.1%FS
Temp Measuring range	0~100 ℃	0~100 ℃	0~100 ℃
Temp Resolution	0.1 ℃	0.1 ℃	0.1 ℃
Temp Accuracy	±0.5 ℃	±0.5 ℃	±0.5 ℃
Temp Compensation	0-100 ℃, automatic	0-100 ℃, automatic	0-100 ℃, automatic
Calibration	3 point, automatic	3 point, automatic	3 point, automatic
Buffers	USA/NIST/China	USA/NIST/China	USA/NIST/China
Data storage	500 sets	500 sets	500 sets
Communication interfaces	USB, Bluetooth	USB, Bluetooth	USB,Bluetooth
Working Conditions	Temperature: 5-40° Humidity: 5-85%	Temperature: 5-40° Humidity: 5-85%	Temperature: 5-40° Humidity: 5-85%
Power	12V/1A	12V/1A	12V/1A
Size & Weight	240 × 170 × 70mm/600g	240 × 170 × 70mm/600g	240 × 170 × 70mm/600g

## Standard Configuration

1. S-610 pH meter 1 unit
2. Composite electrode(subject to different models) 1 pc
3. Rotary electrode holder 1 pc
4. pH calibration buffer 1 set
5. 12V power adapter 1 pc
6. USB with user manual 1 pc

# S-611 Series Benchtop Conductivity Meter



## Main Features

- 6.5 inch LCD screen which is intuitive and can show more parameters. Humanized design of operating interface makes operations simpler.
- Omron long lasting and light touch panel can be used more than 100,000 times.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- Built-in big memory can store 500 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- Auto recognition of eight kinds of standard conductivity solution and there are two series of standard solution for option: USA series and China series.
- Adopt advanced conductivity measurement technology, one point calibration of conductivity electrode can meet the measuring accuracy requirements for test  $0.5\mu\text{ S/cm} \sim 200\text{mS/cm}$ .
- Able to switch between conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
- Optional Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission to cell phone via wireless Bluetooth.
- IP54 dustproof and waterproof housing.



# S-611 Series Benchtop Conductivity Meter

## Specifications

MODEL	S-611H	S-611L	S-611P	S-611C
Display	6.5 inch LCD screen	6.5 inch LCD screen	6.5 inch LCD screen	6.5 inch LCD screen
Parameters	conductivity, Resistivity, TDS, salinity, temperature	conductivity, Resistivity, TDS, salinity, temperature	conductivity, Resistivity, TDS, salinity, temperature	conductivity, Resistivity, TDS, salinity, temperature
measuring range	(0.00~20.00) $\mu\text{S/cm}$	(0.00~20.00) $\mu\text{S/cm}$	(0.00~20.00) $\mu\text{S/cm}$	(0.00~20.00) $\mu\text{S/cm}$
	(20.0~200.0) $\mu\text{S/cm}$	(20.0~200.0) $\mu\text{S/cm}$	(20.0~200.0) $\mu\text{S/cm}$	(20.0~200.0) $\mu\text{S/cm}$
	(200~2000) $\mu\text{S/cm}$	(200~2000) $\mu\text{S/cm}$	(200~2000) $\mu\text{S/cm}$	(200~2000) $\mu\text{S/cm}$
	(2.00~20.00) $\text{mS/cm}$	(2.00~20.00) $\text{mS/cm}$	(2.00~20.00) $\text{mS/cm}$	(2.00~20.00) $\text{mS/cm}$
	(20.0~200.0) $\text{mS/cm}$	(20.0~200.0) $\text{mS/cm}$	(20.0~200.0) $\text{mS/cm}$	(20.0~200.0) $\text{mS/cm}$
	(200~2000) $\text{mS/cm}$ (K=10)		(200~2000) $\text{mS/cm}$ (K=10)	(200~2000) $\text{mS/cm}$ (K=10)
Conductivity resolution	0.01/0.1/1 $\mu\text{S/cm}$	0.01/0.1/1 $\mu\text{S/cm}$	0.01/0.1/1 $\mu\text{S/cm}$	0.01/0.1/1 $\mu\text{S/cm}$
	0.01/0.1/1 $\text{mS/cm}$	0.01/0.1 $\text{mS/cm}$	0.01/0.1/1 $\text{mS/cm}$	0.01/0.1/1 $\text{mS/cm}$
Conductivity Accuracy	Electrode: $\pm 0.5\% \text{FS}$	Electrode: $\pm 1.0\% \text{FS}$	Electrode: $\pm 0.5\% \text{FS}$	Electrode: $\pm 0.5\% \text{FS}$
	Instrument: $\pm 0.8\% \text{FS}$	Instrument: $\pm 1.50\% \text{FS}$	Instrument: $\pm 0.8\% \text{FS}$	Instrument: $\pm 0.8\% \text{FS}$
Resistivity measuring range	0 ~ 100 $\text{M}\Omega \cdot \text{cm}$	0 ~ 100 $\text{M}\Omega \cdot \text{cm}$	0 ~ 100 $\text{M}\Omega \cdot \text{cm}$	0 ~ 100 $\text{M}\Omega \cdot \text{cm}$
TDS	0~100g/L	0~100 g/L	0~100g/L	0~100g/L
Salinity	0~100 ppt	0~100 ppt	0~100 ppt	0~100 ppt
Temp measuring range	(0~100) $^{\circ}\text{C}$	(0~100) $^{\circ}\text{C}$	(0~100) $^{\circ}\text{C}$	(0~100) $^{\circ}\text{C}$
Temp resolution	0.1 $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$
Temp accuracy	$\pm 0.5^{\circ}\text{C}$	$\pm 0.5^{\circ}\text{C}$	$\pm 0.5^{\circ}\text{C}$	$\pm 0.5^{\circ}\text{C}$
Data storage	500 sets	500 sets	500 sets	500 sets
Communication interfaces	USB, Bluetooth	USB, Bluetooth	USB, Bluetooth	USB, Bluetooth
Working conditions	Temperature: 5-40 $^{\circ}$	Temperature: 5-40 $^{\circ}$	Temperature: 5-40 $^{\circ}$	Temperature: 5-40 $^{\circ}$
	Humidity: 5-85%	Humidity: 5-85%	Humidity: 5-85%	Humidity: 5-85%
Power	12V/1A	12V/1A	12V/1A	12V/1A
Size & Weight	240 × 170 × 70mm/600g	240 × 170 × 70mm/600g	240 × 170 × 70mm/600g	240 × 170 × 70mm/600g

## Standard Configuration

- |                                                         |        |
|---------------------------------------------------------|--------|
| 1. S-611 benchtop conductivity meter                    | 1 unit |
| 2. Conductivity electrode (subject to different models) | 1 pc   |
| 3. Rotary electrode holder                              | 1 pc   |
| 4. 12V power adapter                                    | 1 pc   |
| 5. USB with user manual                                 | 1 pc   |

# S-612 Benchtop Dissolved Oxygen Meter



## Main Features

- 6.5 inch LCD screen which is intuitive and can show more parameters. Humanized design of operating interface makes operations simpler.
- Omron long lasting and light touch panel can be used more than 100,000 times.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- Built-in big memory can store 500 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- DO mode has functions of ATC, auto salinity compensation and auto pressure compensation.
- New structure polarographic DO electrode can measure temperature, salinity and dissolved oxygen simultaneously, equipped with special DO electrode calibration sleeve, only need 3~5 minutes for polarization.
- Combined diaphragm cap makes it extremely convenient to replace the sensitive membrane just by screwing the new cap to the electrode.
- Optional Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission to cell phone via wireless Bluetooth.
- IP54 dustproof and waterproof housing

# S-612 Benchtop Dissolved Oxygen Meter

## Specifications

MODEL	S-612
Display	6.5 inch LCD screen
Parameters	Concentration, saturation, temperature
DO Range	0.00~20 mg/L (ppm)
DO Resolution	0.01/0.1
DO Accuracy	±0.3%
DO Saturation	0.0~200%
Saturation Resolution	0.1%
Saturation Accuracy	±2.0%FS
Temperature Measuring Range	(0~100) °C
Temperature Resolution	0.1 °C
Temperature Accuracy	±0.1 °C
Temperature Compensation	(0~100) °C (automatic)
Salinity Compensation	(0.0~50.0) g/L
Pressure Compensation	(80~105) kPa (automatic)
Pressure Resolution	1
Pressure Accuracy	±2%
Stability	(±0.07mg/L)/1h
Response Time	≤30s (25 °C, 90% response)
Data Storage	500 sets, external USB storage
Communication Interfaces	USB, Bluetooth
Working Conditions	Temperature: 5-40°
	Humidity: 5-85%
Power	12V1A (with standard AC adapter)
Dimensions &Weight	240 x 170 x 70mm/600g

## Standard Configuration

1.S-612 Dissolved Oxygen meter	1 unit	5.Membrane cap(for DO electrode)	3 pcs
2.Composite DO electrode	1 pc	6.DO electrode electrolyte (30ml)	1 bottle
3.Rotary electrode holder	1 pc	7.Brief operating manual	1 copy
4.12V power adapter	1 pc		

Note: benchtop DO meter is polarographic, suggest using it together with magnetic stirrer (optional).

# S-613 Series Ion Concentration Meter



Test ions in aqueous solutions with the features of simple sample process, quick and accurate measurements.

## Main Features

- 6.5 inch LCD screen which is intuitive and can show more parameters. Humanized design of operating interface makes operations simpler.
- Omron long lasting and light touch panel can be used more than 100,000 times.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- Built-in big memory can store 500 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- Can test electric potential, pH, ORP, ion concentration and temperature
- Quick switch between different units: g/L, mol/L, ppm.
- Optional Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission to cell phone via wireless Bluetooth.
- Smart judge of electrode status to ensure accurate use for operators.
- IP54 waterproof and dustproof

Description	Model	Applications
Fluoride ion meter	S-613F	Test and analysis of the fluoride in drinking water, surface water, sea water, living sewage and industrial wastewater and the fluorine ion in mineral, organic, and biological materials.
Sodium ion meter	S-613Na	Suitable for measurement of sodium ion and pH value in natural water, boiler water and industrial drainage, especially for the quality monitoring of high purity water in power plant.

# S-613 Series Ion Concentration Meter

Description	Model	Applications
Chloride ion meter	S-613Cl	Measure chloride ion and pH value in drinking water, food and sewage.
Calcium ion meter	S-613Ca	Test calcium ion and pH value of water solutions. Widely used in the analysis and research of water quality, biochemistry and biomedicine.
Bromide ion meter	S-613Br	Test bromide ion and pH value in drinking water, food and sewage.
Nitrate ion meter	S-613NO	Test nitrate ion and pH value in drinking water, food and sewage.
Potassium ion meter	S-613K	Measure potassium ion and pH value in drinking water, food and sewage.
Ammonia Ion Meter	S-613NH	Test ammonia & nitrogen and pH value in drinking water, food and sewage.
Copper ion meter	S-613Cu	Test copper ion and pH value in food, beverage, electroplating industry and sewage.
Iodide ion meter	S-613I	Test iodide ion and pH value in drinking water, food and sewage.

## Specifications

Measurement Range	pH/pX	(-2.00 ~ 18.00) pH, (0.00 ~ 14.00) pX
	mV	(-1999.9 ~ 1999.9) mV
	Concentration	(0 ~ 19990), optional units: mol/L, g/L, ppm
	Temperature	(0 ~ 100.0) °C
Resolution	pH/pX	0.01pH/pX
	mV	1mV
	Concentration	4 significant digits(expressed in scientific notation)
	Temperature	0.1 °C
Accuracy	pH/pX	±0.02pH/pX
	mV	±0.1%FS
	Concentration	±0.5%
	Temperature	±0.1 °C
Power Supply		DC 12V/1A, with standard power adapter
Dimensions & Weight		240×170×70mm,600g

## Standard Configuration

1. Ion concentration meter	1 unit	5. Rotary electrode holder	1 pc
2. Ion electrode	1 pc	6. 12V power adapter	1 pc
3. Reference electrode	1 pc	7. User manual	1 copy
4. Temperature electrode	1 pc		

# S-620 Precise pH/Conductivity Meter



Suitable for high precision pH/conductivity measurements in scientific research, quality control, biotechnology and fine chemistry industry.

## Main Features

- 6.5 inch LCD screen which is intuitive and can show more parameters. Humanized design of operating interface makes operations simpler.
- Omron long lasting and light touch panel can be used more than 100,000 times.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- Built-in big memory can store 500 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- Auto recognition of standard pH buffer solutions and there are three kinds of standard buffer for option: USA series, NIST series and China series.
- Optional Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission to cell phone via wireless Bluetooth.
- Auto recognition of eight kinds of standard conductivity solution and there are two series of standard solution for option: USA series and China series.
- Adopt advanced conductivity measurement technology, one point calibration of conductivity electrode can meet the measuring accuracy requirements for test  $0.5\mu\text{ S/cm} \sim 200\text{ mS/cm}$ .
- Able to switch between conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
- Smart judge of electrode status to ensure accurate use for operators.
- IP54 waterproof and dustproof

# S-620 Precise pH/Conductivity Meter

## Specifications

MODEL	S-620	
pH	Measuring range	(-2.00 ~ 18.00) pH
	Resolution	0.1/0.01 pH
	Accuracy	±0.02 pH
	Input current	≤2×10 <sup>-12</sup> A
	Input impedance	≥1×10 <sup>12</sup> Ω
	Stability	±0.01 pH/3h
	Temperature compensation	(0 ~ 100) °C (auto or manual)
mV	Measuring range(mV/ORP/EH)	-1999.9mV ~ 0 ~ 1999.9mV
	Resolution	1mV
	Accuracy	±0.1% FS
Conductivity	Measuring range	Conductivity: (0.00~20.00) μS/cm (20.0~200.0) μS/cm (200~2000) μS/cm (2.00~20.00) mS/cm (20.0~200.0) mS/cm (200~2000) mS/cm (K=10) Resistivity: (0 ~ 100) MΩ·cm TDS: (0 ~ 100) g/L Salinity: (0 ~ 100) ppt
	Resolution	0.01/0.1/1 μS/cm 0.01/0.1/1 mS/cm
	Accuracy	Electrode: ±0.5% FS, Instrument: ±0.80% FS
	Temp. compensation range	(0 ~ 100) °C (auto)
	Electrode constant	0.1/1/10 cm <sup>-1</sup>
Temperature	Measuring range	0 °C ~ 100 °C
	Resolution	0.1 °C
	Accuracy	5~ 60 °C: ±0.4 °C Others: ±0.8 °C
Other Technical Parameters	Data storage	500 sets
	Power requirements	DC12V/1A
	Communication connectors	Bluetooth,USB
	Dimensions&Weight	240 × 170 × 70mm/600g
Working Conditions	Ambient temperature	5 ~ 35 °C
	Ambient humidity	≤85%
	IP grade	IP54

## Standard Configuration

- |                            |        |                           |        |
|----------------------------|--------|---------------------------|--------|
| 1. S-620 Benchtop meter    | 1 unit | 5. Conductivity electrode | 1 pc   |
| 2. Composite pH electrode  | 1 pc   | 6. 12V power adapter      | 1 pc   |
| 3. Rotary electrode holder | 1 pc   | 7. User manual            | 1 copy |
| 4. pH calibration buffer   | 1 set  |                           |        |

# S-621 Precise pH/DO Meter



Precise measurements of pH/DO in fields of biotechnology, aquaculture, power plant and environmental protection, and also more widely used in areas of education and scientific research.

## Main Features

- 6.5 inch LCD screen which is intuitive and can show more parameters. Humanized design of operating interface makes operations simpler.
- Omron long lasting and light touch panel can be used more than 100,000 times.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- Built-in big memory can store 500 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- Auto recognition of standard pH buffer solutions and there are three kinds of standard buffer for option: USA series, NIST series and China series.
- DO mode has functions of ATC, auto salinity compensation and auto pressure compensation.
- New structure polarographic DO electrode can measure temperature, salinity and dissolved oxygen simultaneously, equipped with special DO electrode calibration sleeve, only need 3~5 minutes for polarization.
- Combined diaphragm cap makes it extremely convenient to replace the sensitive membrane just by screwing the new cap to the electrode.
- Optional Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission to cell phone via wireless Bluetooth.
- Smart judge of electrode status to ensure accurate use for operators.
- IP54 waterproof and dustproof.



# S-621 Precise pH/DO Meter

## Specifications

MODEL	S-621	
pH	Measuring range	(-2.00 ~ 18.00) pH
	Resolution	0.1/0.01 pH
	Accuracy	±0.02 pH
	Input current	≤2×10 <sup>-12</sup> A
	Input impedance	≥1×10 <sup>12</sup> Ω
	Stability	±0.01 pH/3h
	Temperature compensation	(0 ~ 100) °C (auto or manual)
mV	Measuring range(mV/ORP/EH)	-1999.9mV ~ 0 ~ 1999.9mV
	Resolution	1mV
	Accuracy	±0.1% FS
Dissolved Oxygen	Measuring range	(0 ~ 20.00) mg/L(ppm) (0 ~ 200.0)%
	Resolution	0.1/0.01 mg/L(ppm) 1/0.1%
	Accuracy	±0.3%, ±0.40 mg/L
	Response time	≤30 s (25 °C, 90% response)
	Residual current	≤0.1 mg/L
	Temp compensation range	(0 ~ 100) °C (automatic)
	Salinity compensation range	(0 ~ 45) ppt (automatic)
	Air pressure compensation	(80 ~ 105) kPa (automatic)
	Electrode type	Polarographic
Temperature	Measuring range	0 °C ~ 100 °C
	Resolution	0.1 °C
	Accuracy	5~ 60 °C: ±0.4 °C Others: ±0.8 °C
Other Technical Parameters	Data storage	500 groups
	Power requirements	DC12V/1A
	Communication connectors	Bluetooth, USB
	Dimensions&Weight	240 × 170 × 70mm/600g
Working Conditions	Ambient temperature	5 ~ 35 °C
	Ambient humidity	≤85%
	IP grade	IP54

## Standard Configuration

- |                               |        |                                    |          |
|-------------------------------|--------|------------------------------------|----------|
| 1. S-621 Benchtop pH/DO meter | 1 unit | 6. Membrane cap(for DO electrode)  | 3 pcs    |
| 2. Composite pH electrode     | 1 pc   | 7. DO electrode electrolyte (30mL) | 1 bottle |
| 3. Rotary electrode holder    | 1 pc   | 8. 12V power adapter               | 1 pc     |
| 4. pH calibration buffer      | 1 set  | 9. User manual                     | 1 copy   |
| 5. Dissolved Oxygen Electrode | 1 pc   |                                    |          |

# S-623 Precise Conductivity/DO Meter



For high-precision measurements of the conductivity/DO in laboratory. Widely used in the fields of biotechnology, aquaculture, power plants and environmental protection.

## Main Features

- 6.5 inch LCD screen which is intuitive and can show more parameters. Humanized design of operating interface makes operations simpler.
- Omron long lasting and light touch panel can be used more than 100,000 times.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- Built-in big memory can store 500 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- Auto recognition of eight kinds of standard conductivity solution and there are two series of standard solution for option: USA series and China series.
- Adopt advanced conductivity measurement technology, one point calibration of conductivity electrode can meet the measuring accuracy requirements for test  $0.5\mu\text{ S/cm} \sim 200\text{mS/cm}$ .
- Able to switch between conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
- DO mode has functions of ATC, auto salinity compensation and auto pressure compensation.
- New structure polarographic DO electrode can measure temperature, salinity and dissolved oxygen simultaneously, equipped with special DO electrode calibration sleeve, only need 3~5 minutes for polarization.
- Combined diaphragm cap makes it extremely convenient to replace the sensitive membrane just by screwing the new cap to the electrode.
- Optional Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission to cell phone via wireless Bluetooth.
- IP54 dustproof and waterproof housing.

# S-623 Precise Conductivity/DO Meter

## Specifications

MODEL	S-623	
Conductivity	Measuring range	Conductivity: (0.00~20.00) $\mu\text{S/cm}$ (20.0~200.0) $\mu\text{S/cm}$ (200~2000) $\mu\text{S/cm}$ (2.00~20.00) $\text{mS/cm}$ (20.0~200.0) $\text{mS/cm}$ (200~2000) $\text{mS/cm}$ (K=10)
		Resistivity: (0 ~ 100) $\text{M}\Omega\cdot\text{cm}$
		TDS: (0 ~ 100) $\text{g/L}$
		Salinity: (0 ~ 100) ppt
	Resolution	0.01/0.1/1 $\mu\text{S/cm}$ 0.01/0.1/1 $\text{mS/cm}$
	Accuracy	Electrode: $\pm 0.5\%$ FS, Instrument: $\pm 0.80\%$ FS
	Temp compensation	(0 ~ 100) $^{\circ}\text{C}$ (automatic)
	Electrode constant	0.1/1/10 $\text{cm}^{-1}$
	Reference temperature	25 $^{\circ}\text{C}$ , 20 $^{\circ}\text{C}$ , 18 $^{\circ}\text{C}$
Dissolved Oxygen	Measuring range	(0 ~ 20.00) $\text{mg/L}$ (ppm), (0 ~ 200.0)%
	Resolution	0.1/0.01 $\text{mg/L}$ (ppm), 1/0.1 %
	Accuracy	$\pm 0.3\%$ , $\pm 0.40$ $\text{mg/L}$
	Response time	$\leq 30\text{s}$ (25 $^{\circ}\text{C}$ , 90% response)
	Residual current	$\leq 0.1$ $\text{mg/L}$
	Temperature compensation	(0 ~ 100) $^{\circ}\text{C}$ (automatic)
	Salinity compensation	(0 ~ 45) ppt (automatic)
	Pressure compensation	(80 ~ 105) $\text{kPa}$ (automatic)
	Automatic calibration	Air saturated by water, water saturated by air
	Electrode type	Polarographic
Temperature	Measuring range	0 $^{\circ}\text{C}$ ~ 100 $^{\circ}\text{C}$
	Resolution	0.1 $^{\circ}\text{C}$
	Accuracy	5~ 60 $^{\circ}\text{C}$ : $\pm 0.4$ $^{\circ}\text{C}$ Others: $\pm 0.8$ $^{\circ}\text{C}$
Other Parameters	Data storage	500 groups
	Power	DC12V/1A
	Communications	USB, wireless Bluetooth
	Dimensions & Weight	240 × 170 × 70mm/600g
Working Conditions	Ambient temperature	5 ~ 35 $^{\circ}\text{C}$
	Ambient humidity	$\leq 85\%$
	IP grade	IP54

## Standard Configuration

1. S-623 conductivity/DO meter	1 unit	5. Membrane cap (for DO electrode)	3 pcs
2. Conductivity electrode	1 pc	6. DO electrode electrolyte (30ml)	1 bottle
3. Rotary electrode holder	1 pc	7. 12V power adapter	1 pc
4. Dissolved Oxygen Electrode	1 pc	8. User manual in USB	1 copy

# S-630 pH/mV/Conductivity/DO Meter



Multi-parameter analyzer for high precision measurement in laboratory covering 9 kinds of electrochemical parameters like pH, conductivity and dissolved oxygen. Suitable for the fields of petroleum, chemical, pharmacy, power plants and environmental protection, and also widely used in areas of education and scientific research.

## Main Features

- 6.5 inch LCD screen which is intuitive and can show more parameters. Humanized design of operating interface makes operations simpler.
- Omron long lasting and light touch panel can be used more than 100,000 times.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- Built-in big memory can store 500 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- Auto recognition of standard pH buffer solutions and there are three kinds of standard buffer for option: USA series, NIST series and China series.
- Auto recognition of eight kinds of standard conductivity solution and there are two series of standard solution for option: USA series and China series.
- Adopt advanced conductivity measurement technology, one point calibration of conductivity electrode can meet the measuring accuracy requirements for test  $0.5\mu\text{ S/cm} \sim 200\text{mS/cm}$ .
- Able to switch between conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
- DO mode has functions of ATC, auto salinity compensation and auto pressure compensation.
- New structure polarographic DO electrode can measure temperature, salinity and dissolved oxygen simultaneously, equipped with special DO electrode calibration sleeve, only need 3~5 minutes for polarization.
- Combined diaphragm cap makes it extremely convenient to replace the sensitive membrane just by screwing the new cap to the electrode.
- Optional Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission to cell phone via wireless Bluetooth.
- Smart judge of electrode status to ensure accurate use for operators.
- IP54 waterproof and dustproof.

# S-630 pH/mV/Conductivity/DO Meter

## Specifications

MODEL	S-630		
pH	Measuring range	(-2.00 ~ 18.00) pH	
	Resolution	0.1/0.01 pH	
	Accuracy	±0.02 pH	
	Input current	≤2×10 <sup>-12</sup> A	
	Input impedance	≥1×10 <sup>12</sup> Ω	
	Stability	±0.01 pH/3h	
	Temp compensation	(0 ~ 100) °C (auto or manual )	
mV	Measuring range(mV/ORP/EH)	-1999.9mV ~ 0 ~ 1999.9mV	
	Resolution	1mV	
	Accuracy	±0.1% FS	
Conductivity	Measuring range	Conductivity (0.00~20.00) μS/cm (20.0~200.0) μS/cm (200~2000) μS/cm (2.00~20.00) mS/cm (20.0~200.0) mS/cm (200~2000) mS/cm (K=10)	
		Resistivity: (0 ~ 100) MΩ·cm	
		TDS: (0 ~ 100) g/L	
		Salinity: (0 ~ 100) ppt	
		Resolution	0.01/0.1/1 μS/cm 0.01/0.1/1 mS/cm
		Accuracy	Electrode: ±0.5% FS, Instruments: ±0.80%FS
	Temp compensation	(0 ~ 100) °C (automatic)	
	Electrode constants	0.1/1/10 cm <sup>-1</sup>	
	Reference temperature	25 °C, 20 °C, 18 °C	
	Dissolved Oxygen	Measuring range	(0 ~ 20.00) mg/L(ppm) (0 ~ 200.0)%
Resolution		0.1/0.01 mg/L(ppm) 1/0.1 %	
Accuracy		±0.3%, ±0.40 mg/L	
Response time		≤30s (25 °C, 90%response)	
Residual current		≤0.1 mg/L	
Temp compensation		(0 ~ 100) °C (automatic)	
Salinity compensation		(0 ~ 45) ppt (automatic)	
Pressure compensation		(80 ~ 105) kPa (automatic)	
Automatic calibration		Air saturated by water; water saturated by air	
Electrode type		Polarographic	
Temperature	Measuring range	0 °C ~ 100 °C	
	Resolution	0.1 °C	
	Accuracy	5~ 60 °C: ±0.4 °C Others: ±0.8 °C	
Other Parameters	Data storage	500 groups	
	Power requirements	DC12V/1A	
	Communications	USB, Wireless Bluetooth	
	Dimensions & Weight	240 × 170 × 70mm/600g	
Working Conditions	Ambient temperature	5 ~ 35 °C	
	Ambient humidity	≤85%	
	IP grade	IP54	

## Standard Configuration

1. S-630 benchtop multi-parameter analyzer	1 unit	6. Dissolved Oxygen Electrode	1 pc
2. Composite pH electrode	1 pc	7. Membrane cap(for DO electrode)	3 pcs
3. Rotary electrode holder	1 pc	8. DO electrode electrolyte(30ml)	1 bottle
4. pH calibration buffer	1 set	9. 12V power adapter	1 pc
5. Conductivity electrode	1 pc	10. User manual in USB	1 copy



## Main Features

- 5 inch LCD screen with wide 150° viewing angle, beautiful and compact design.
- Compact bench cradle with rotary electrode holder to save space in laboratory.
- Small size and portable make it easy to carry and remove in laboratory and outdoors.
- Extendibility: different electrodes can be installed to test pH, conductivity and dissolved oxygen.
- Auto recognition of different electrodes after electrode is connected.
- 3.5 mm jack input for electrodes makes it very easy for electrode connection.
- Two USB and one SD card interfaces for power and data transfer.
- Can store 300 pieces of data including readings, date and time.
- Rechargeable and long lasting battery. Auto shut off if there is no operation in ten minutes.



## Specifications

MODEL	L-510	
pH	Measurement range	(-2.00 ~ 19.99)pH
	Resolution	0.1/0.01 pH
	Accuracy	±0.02 pH
	Input current	≤2×10 <sup>-12</sup> A
	Input impedance	≥1×10 <sup>12</sup> Ω
	Stability	±0.01 pH/3h
	Temperature compensation	(0 ~ 100) °C (auto or manual )
mV	Measurement range(mV/ORP/EH)	-1999.9mV ~ 0 ~ 1999.9mV
	Resolution	1mV
	Accuracy	±0.1% FS
Temperature	Range	0 °C ~ 100 °C
	Resolution	0.1 °C
	Accuracy	±0.5 °C
Calibration	1, 2, 3, point	
Other Parameters	Data storage	300 sets
	Power	DC 5V/1A
	Communication interfaces	USB
	Dimensions & Weight	190*130*10mm/300g
Working Conditions	Temperature	(5 ~ 35) °C
	Humidity	≤85%
	IP grade	IP54

# L-511 Tablet Conductivity Meter



MODEL	L-511	
Conductivity	Measuring range	Conductivity: (0.00 ~ 20.00) $\mu\text{S}/\text{cm}$ (20.0 ~ 200.0) $\mu\text{S}/\text{cm}$ (200 ~ 2000) $\mu\text{S}/\text{cm}$ (2.00 ~ 20.00) $\text{mS}/\text{cm}$ (20.0 ~ 200.0) $\text{mS}/\text{cm}$ Resistivity: (0 ~ 100) $\text{M}\Omega\cdot\text{cm}$ TDS: (0 ~ 100) $\text{g}/\text{L}$ Salinity: (0 ~ 100) ppt
	Resolution	0.01/0.1/1 $\mu\text{S}/\text{cm}$ 0.01/0.1 $\text{mS}/\text{cm}$
	Accuracy	Electrode: $\pm 1.0\%$ FS, Instrument: $\pm 1.50\%$ FS
	Temp compensation range	(0 ~ 100) $^{\circ}\text{C}$ (Automatic)
	Electrode constant	0.1/1/10 $\text{cm}^{-1}$
Temperature	Measuring range	0 ~ 100 $^{\circ}\text{C}$
	Resolution	0.1 $^{\circ}\text{C}$
	Accuracy	$\pm 0.5$ $^{\circ}\text{C}$
Other parameters	Data storage	300 sets
	Power	DC 5V/1A
	Communication connectors	USB
	Dimensions & Weight	190*130*10mm/300g
Working conditions	Ambient temperature	(5 ~ 35) $^{\circ}\text{C}$
	Ambient humidity	$\leq 85\%$
	IP grade	IP54



## Main Features

- 5 inch LCD screen with wide 150° viewing angle, beautiful and compact design.
- Compact bench cradle with rotary electrode holder to save space in laboratory.
- Small size and portable make it easy to carry and remove in laboratory and outdoors.
- Extendibility: different electrodes can be installed to test pH, conductivity and dissolved oxygen.
- Auto recognition of different electrodes after electrode is connected.
- 3.5 mm jack input for electrodes makes it very easy for electrode connection.
- Two USB and one SD card interfaces for power and data transfer.
- Can store 300 pieces of data including readings, date and time.
- Rechargeable and long lasting battery. Auto shut off if there is no operation in ten minutes.

## Specifications

MODEL	L-512
Display	5-inch LCD screen
Parameters	Concentration, saturation, temperature
DO Range	0.00 ~ 20 mg/L (ppm)
Resolution	0.01/0.1
DO Accuracy	±0.3%, ±0.4mg/L
DO Saturation	0.0 ~ 200%
Saturation Resolution	0.1%
Saturation Accuracy	±2.0%FS
Temperature Measuring Range	(0 ~ 100) °C
Temperature Resolution	0.1 °C
Temperature Accuracy	5 ~ 60 °C: ±0.5 °C, Others: ±1.0 °C
Temperature compensation range	(0 ~ 100) °C (automatic)
Salinity compensation range	(0.0 ~ 50.0)g/L
Air pressure compensation range	(80 ~ 105) kPa (automatic)
Pressure resolution	1
Pressure Accuracy	±2%
Stability	(±0.07mg/L)/1h
Response time	≤30s (25 °C, 90% response)
Data Storage	300 data, external USB storage
Communication Interfaces	USB
Working Conditions	Temperature:5 ~ 40° Humidity: 5 ~ 85%
Power Requirements	DC 5V/1A
Size &Weight	190*130*10mm/300g



## Main Features

- Large LCD screen with controllable white backlight.
- Built-in microprocessor chip with functions of auto calibration, auto temperature compensation, data storage, function setup, self-diagnosis, auto shut off, low voltage display.
- Auto recognition of standard pH buffers and there are three kinds of standard buffers for option: USA series, NIST series and China series.
- Can set up pH measurement modes of high purity water and ammonia added pure water.
- Humanized designs like rack and skid proof shell make it more convenient for users.
- Equipped with standard buffers and optional carrying case for outdoor purpose.
- IP57 waterproof housing.

## Specifications

MODEL	P-510	
Display	Large LCD screen with controllable white backlight	
pH	Measurement range	(-2.00 ~ 19.99)pH
	Resolution	0.1/0.01 pH
	Accuracy	±0.02 pH
	Input current	≤2×10 <sup>-12</sup> A
	Input impedance	≥1×10 <sup>12</sup> Ω
	Stability	±0.01 pH/3h
	Temp compensation	(0 ~ 100)°C (auto or manual )
mV	Measurement range(mV/ORP/EH)	-1999.9mV ~ 0 ~ 1999.9mV
	Resolution	1mV
	Accuracy	±0.1% FS
Other Parameters	Data storage	200 sets
	Storage contents	Series number, measuring value, measuring unit and temperature
	Power	Two AA batteries(1.5V)
	Size & Weight	160*90*30mm/360g (instrument) 480*300*60mm/1kg (with packing)
Working Conditions	Environment Temperature	(5 ~ 35)°C (grade 0.01)
	Environment Humidity	≤85%
	IP grade	IP57

## Standard Configuration

- |                                                       |               |
|-------------------------------------------------------|---------------|
| 1. P-510 pH/mV meter                                  | 1 unit        |
| 2. pH electrode                                       | 1 pc          |
| 3. Temperature electrode                              | 1 pc          |
| 4. Standard pH buffer(pH4.00, pH6.86 and pH9.18/50ml) | 1 bottle/each |
| 5. Backup AA battery                                  | 2 pcs         |
| 6. Operation manual                                   | 1 copy        |



Measure conductivity, TDS, salinity and resistivity of water solutions, suitable for industrial and mining factories, water treatment engineering and environmental protection, especially for outdoor use.

## Main Features

- Large LCD screen with controllable white backlight.
- Built-in microprocessor chip with functions of auto calibration, auto temperature compensation, data storage, function setup, self-diagnosis, auto power off, low voltage display.
- Auto recognition of 8 standard conductivity solutions and there are two series of standard buffers for option: USA series, China series.
- Adopt advanced conductivity measurement technology, one point calibration of conductivity electrode can meet the measuring accuracy requirements for test  $0.5\mu\text{ S/cm} \sim 200\text{mS/cm}$ .
- Able to switch between conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
- Conductivity mode has the function of non-linear temperature compensation for high purity water.
- Humanized designs like rack and skid proof shell make it more convenient for users.
- Plastic conductivity electrode with automatic temperature compensation to ensure fast and accurate result.

## Specifications

MODEL	P-511	
Display	Large LCD screen with controllable white backlight	
Conductivity	Measurement range	Conductivity: (0.00~19.99) $\mu\text{S}/\text{cm}$ (20.0~199.9) $\mu\text{S}/\text{cm}$ (200~1999) $\mu\text{S}/\text{cm}$ (2.00~19.99) $\text{mS}/\text{cm}$ (20.0~199.9) $\text{mS}/\text{cm}$ TDS: (0 ~ 100) $\text{g}/\text{L}$ Salinity: (0~100) ppt Resistivity: (0 ~ 100) $\text{M}\Omega\cdot\text{cm}$
	Resolution	0.01/0.1/1 $\mu\text{S}/\text{cm}$ 0.01/0.1 $\text{mS}/\text{cm}$
	Accuracy	Electrode: $\pm 1.0\%$ FS, Instrument: $\pm 1.5\%$ FS
	Temperature compensation	(0~100) $^{\circ}\text{C}$ (automatic)
	Electrode constants	0.1/1/10 $\text{cm}^{-1}$
	Reference temperature	25 $^{\circ}\text{C}$ , 20 $^{\circ}\text{C}$ , 18 $^{\circ}\text{C}$
Other Parameters	Data storage	200 sets
	Storage contents	Series number, measuring value, measuring unit and temperature
	Power	Two AA batteries(1.5V)
	Size & Weight	160*90*30mm/360g (instrument) 480*300*60mm/1kg (with packing)
Working Conditions	Environment Temperature	(5 ~ 35) $^{\circ}\text{C}$ (grade 0.01)
	Environment Humidity	$\leq 85\%$
	IP grade	IP57

## Standard Configuration

- |                                                      |        |
|------------------------------------------------------|--------|
| 1. P-511 Conductivity/TDS/Salinity/Resistivity meter | 1 unit |
| 2. Conductivity electrode                            | 1 pc   |
| 3. Temperature electrode                             | 1 pc   |
| 4. Backup AA battery                                 | 2 pcs  |
| 5. Operation manual                                  | 1 copy |



Suitable for aquaculture, water source monitoring, sewage treatment and environmental protection monitoring, especially for outdoor purposes.

## Main Features

- Large LCD screen with controllable white backlight.
- Humanized designs like rack and skid proof shell make it more convenient for users.
- DO mode has functions of ATC, auto salinity compensation and auto pressure compensation.
- New structure polarographic DO electrode can measure temperature, salinity and dissolved oxygen simultaneously, equipped with special DO electrode calibration sleeve, only need 3~5 minutes for polarization.
- Built-in microprocessor chip with functions of auto calibration, auto temperature compensation, data storage, function setup, self-diagnosis, auto power off, low voltage display.
- Combined diaphragm cap makes it extremely convenient to replace the sensitive membrane just by screwing the new cap to the electrode.
- IP57 waterproof housing

## Specifications

MODEL	P-512	
Display	Large LCD screen with controllable white backlight	
Dissolved Oxygen	Measuring range	(0 ~ 20.00) mg/L(ppm), (0 ~ 200.0)%
	Resolution	0.1/0.01 mg/L(ppm), 1/0.1 %
	Accuracy	±0.40 mg/L
	Response time	≤30s (25 °C, 90% response)
	Residual current	≤0.1 mg/L
	Temperature compensation	(0 ~ 100) °C (automatic)
	Salinity compensation	(0 ~ 45) ppt (automatic)
	Pressure compensation	(66 ~ 200) kPa (manual)
	Automatic calibration	Air saturated by water, water saturated by air
	Electrode type	Polarographic
Other Parameters	Data storage	200 groups
	Storage contents	Series number, measuring value, measuring unit and temperature
	Power	Two AA batteries(1.5V)
	Size & Weight	160×90×30mm/360g (instrument) 480×300×60mm/1KG (with packing)
Working Conditions	Environment Temperature	(5 ~ 35) °C (grade 0.01)
	Environment Humidity	≤85%
	IP grade	IP57

## Standard Configuration

- |                                 |          |
|---------------------------------|----------|
| 1. P-512 Do meter               | 1 unit   |
| 2. Dissolved oxygen electrode   | 1 pc     |
| 3. Temperature electrode        | 1 pc     |
| 4. Membrane cap                 | 3 pcs    |
| 5. Electrode electrolyte (30ml) | 1 bottle |
| 6. Backup AA battery            | 2 pcs    |
| 7. Operation manual             | 1 copy   |



## Main Features

- Large LCD screen with controllable white backlight.
- Humanized designs like rack and skid proof shell make it more convenient for users.
- Double-parameter and equipped with pH electrode and conductivity electrode, can recognize electrode automatically.
- Built-in microprocessor chip with functions of auto calibration, auto temperature compensation, data storage, function setup, self-diagnosis, auto power off, low voltage display.
- Auto recognition of standard pH buffers and there are three series of standard buffers for option: USA, NIST and China.
- Able to set pH measurement modes of high purity water and pure water with ammonia.
- Auto recognition of 8 standard conductivity buffers and there are two series of standard buffers for option: USA and China standards.
- Adopt advanced conductivity measurement technology, one point calibration of conductivity electrode can meet the measuring accuracy requirements for test  $0.5\mu\text{ S/cm} \sim 200\text{mS/cm}$ .
- Able to switch between conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
- Conductivity mode has the function of non-linear temperature compensation for high purity water.
- IP57 and equipped with calibration solution.



## Specifications

MODEL	P-520	
pH	Measuring range	(-2.00 ~ 19.99) pH
	Resolution	0.1/0.01 pH
	Accuracy	±0.02 pH
	Input current	≤2×10 <sup>-12</sup> A
	Input impedance	≥1×10 <sup>12</sup> Ω
	Stability	±0.01 pH/3h
	Temperature compensation	(0 ~ 100) °C (automatic)
mV	Measuring range	-1999.9mV ~ 0 ~ 1999.9mV
	Resolution	1mV
	Accuracy	±0.1% FS
Conductivity	Measuring range	Conductivity: (0.00 ~ 19.99) μS/cm (20.0 ~ 199.9) μS/cm (200~1999) μS/cm (2.00 ~ 19.99) mS/cm (20.0 ~ 199.9) mS/cm TDS: (0 ~ 100) g/L Salinity: (0 ~ 100) ppt Resistivity: (0 ~ 100) MΩ·cm
	Resolution	0.01/0.1/1μS/cm, 0.01/0.1 mS/cm
	Accuracy	Electrode: ±1.0% FS, Instrument: ±1.5%FS
	Temp. compensation range	(0 ~ 100) °C (automatic)
	Electrode constant	0.1/1/10 cm <sup>-1</sup>
	Reference temperature	25 °C, 20 °C, 18 °C
Other	Data storage	200 groups
	Storage contents	Series number, measuring value measuring unit and temperature
	Power requirements	Two AA batteries(1.5V×2)
	Dimensions&Weight	160×90×30mm/360g (instrument) 480×300×60mm/1KG (with packing)
Working Conditions	Ambient temperature	5 ~ 35 °C
	Ambient humidity	≤85%
	IP grade	IP57

## Standard Configuration

- |                                   |        |                               |               |
|-----------------------------------|--------|-------------------------------|---------------|
| 1. P-520 pH/mV/Conductivity meter | 1 unit | 5. Standard pH buffer         |               |
| 2. pH electrode                   | 1 pc   | (pH4.00, pH6.86, pH9.18/50ml) | 1 bottle/each |
| 3. Conductivity electrode         | 1 pc   | 6. Backup AA battery          | 2 pcs         |
| 4. Temperature electrode          | 1 pc   | 7. Operation manual           | 1 copy        |



Suitable for industrial and mining factories, power plant, aquaculture and environmental protection, especially for outdoor purposes.

## Main Features

- Large LCD screen with controllable white backlight.
- Humanized designs like rack and skid proof shell make it more convenient for users.
- Built-in microprocessor chip with functions of auto calibration, auto temperature compensation, data storage, function setup, self-diagnosis, auto power off, low voltage display.
- Double-parameter and equipped with pH electrode and DO electrode, can recognize electrode automatically.
- Auto recognition of standard pH buffers and there are three series of standard buffers for option: USA, NIST and China.
- Able to set pH measurement modes of high purity water and pure water with ammonia.
- DO mode has functions of ATC, auto salinity compensation and auto pressure compensation.
- New structure polarographic DO electrode can measure temperature, salinity and dissolved oxygen simultaneously and equipped with special DO electrode calibration sleeve, only need 3~5 minutes for polarization.
- IP57 and equipped with calibration solution.

## Specifications

MODEL		P-521
pH	Measuring range	(-2.00 ~ 19.99) pH
	Resolution	0.1/0.01 pH
	Accuracy	±0.02 pH
	Input current	≤2×10 <sup>-12</sup> A
	Input impedance	≥1×10 <sup>12</sup> Ω
	Stability	±0.01 pH/3h
	Temperature compensation	(0 ~ 100)°C (automatic)
mV	Measuring range	-1999.9mV ~ 0 ~ 1999.9mV
	Resolution	1mV
	Accuracy	±0.1% FS
DO	Measuring range	(0 ~ 20.00) mg/L(ppm), (0 ~ 200.0)%
	Resolution	0.1/0.01 mg/L(ppm), 1/0.1 %
	Accuracy	±0.3%, ±0.40 mg/L
	Response time	≤30s (25 °C, 90% response)
	Residual current	≤0.1 mg/L
	Temperature compensation	(0 ~ 100)°C (automatic)
	Salinity compensation	(0 ~ 45) ppt (automatic)
	Pressure compensation	(66 ~ 200) kPa (manual)
	Automatic calibration	Air saturated by water, water saturated by air
	Electrode type	Polarographic
Others	Data storage	200 groups
	Storage contents	Series number, measuring value measuring unit and temperature
	Power requirements	Two AA batteries(1.5V×2)
	Dimensions&Weight	160×90×30mm/360g (instrument) 480×300×60mm/1KG (with packing)
Working Conditions	Ambient temperature	5 ~ 35 °C
	Ambient humidity	≤85%
	IP grade	IP57

## Standard Configuration

1. P-521 pH/DO meter	1 unit	6. Membrane cap	3 pcs
2. pH electrode	1 pc	7. Electrolyte	1 bottle
3. DO electrode	1 pc	8. Backup AA battery	2 pcs
4. Temperature electrode	1 pc	9. User manual	1 copy
5. Standard pH buffer(pH4.0, pH6.86, pH9.18/50ml)	3 bottles		



Measure conductivity, TDS, salinity, resistivity, dissolved oxygen and temperature of water solutions and very cost effective.

## Main Features

- Large LCD screen with controllable white backlight.
- Humanized designs like rack and skid proof shell make it more convenient for users.
- Double-parameter and equipped with DO electrode and conductivity electrode, can recognize electrode automatically.
- Built-in microprocessor chip with functions of auto calibration, auto temperature compensation, data storage, function setup, self-diagnosis, auto power off, low voltage display.
- Auto recognition of 8 standard conductivity solutions, and there are two options for standard solutions: USA and China series.
- Adopt advanced conductivity measurement technology, one point calibration of conductivity electrode can meet the measuring accuracy requirements for test  $0.5\mu\text{ S/cm} \sim 200\text{mS/cm}$ .
- Able to switch between conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
- Conductivity mode has the function of non-linear temperature compensation for high purity water.
- Measurement mode of dissolved oxygen has the function of automatic temperature compensation, automatic salinity compensation and manual air pressure compensation.
- New structure polarographic DO electrode can measure temperature, salinity and dissolved oxygen simultaneously and equipped with special DO electrode calibration sleeve, only need 3~5 minutes for polarization.
- IP57 and equipped with calibration solution.

## Specifications

MODEL		P-523
Conductivity	Measuring range	Conductivity: (0.00 ~ 19.99) $\mu\text{S/cm}$ (20.0 ~ 199.9) $\mu\text{S/cm}$ (200 ~ 1999) $\mu\text{S/cm}$ (2.00 ~ 19.99) $\text{mS/cm}$ (20.0 ~ 199.9) $\text{mS/cm}$ TDS: (0 ~ 100) $\text{g/L}$ Salinity: (0 ~ 100) ppt Resistivity: (0 ~ 100) $\text{M}\Omega\cdot\text{cm}$
	Resolution	0.01/0.1/1 $\mu\text{S/cm}$ 0.01/0.1 $\text{mS/cm}$
	Accuracy	Electrode: $\pm 1.0\%$ FS, Instrument: $\pm 1.5\%$ FS
	Temperature compensation	(0 ~ 100) $^{\circ}\text{C}$ (automatic)
	Electrode constants	0.1/1/10 $\text{cm}^{-1}$
	Reference temperature	25 $^{\circ}\text{C}$ , 20 $^{\circ}\text{C}$ , 18 $^{\circ}\text{C}$
Dissolved Oxygen	Measuring range	(0 ~ 20.00) $\text{mg/L(ppm)}$ , (0 ~ 200.0)%
	Resolution	0.1/0.01 $\text{mg/L(ppm)}$ , 1/0.1 %
	Accuracy	$\pm 0.3\%$ , $\pm 0.40$ $\text{mg/L}$
	Response time	$\leq 30\text{s}$ (25 $^{\circ}\text{C}$ , 90% response)
	Residual current	$\leq 0.1$ $\text{mg/L}$
	Temperature compensation	(0 ~ 100) $^{\circ}\text{C}$ (automatic)
	Salinity compensation	(0 ~ 45) ppt (automatic)
	Pressure compensation	(66 ~ 200) $\text{kPa}$ (manual)
	Automatic calibration	Air saturated by water, water saturated by air
	Electrode type	Polarographic
Others	Data storage	200 groups
	Storage contents	Series number, measuring value measuring unit and temperature
	Power	Two AA batteries (1.5V $\times$ 2)
	Size & Weight	160 $\times$ 90 $\times$ 30mm/360g (instrument) 480 $\times$ 300 $\times$ 60mm/1KG (with packing)
Working Conditions	Ambient temperature	(5 ~ 35) $^{\circ}\text{C}$ (grade 0.01)
	Ambient humidity	$\leq 85\%$
	IP grade	IP57

## Standard Configuration

1. P-523 Conductivity/DO meter	1 unit	5. Membrane cap (for DO electrode use)	3 pcs
2. Conductivity electrode	1 pc	6. DO electrode electrolyte (30ml)	1 bottle
3. DO electrode	1 pc	7. Backup AA battery	2 pcs
4. Temperature electrode	1 pc	8. Operation manual	1 copy

# P-310 Pocket pH Meter



## Main Features

- Mini and ultra-thin design with size 180×50×20mm. 10mm diameter electrode can be used to test pH value in tubes.
- Automatic calibration, automatic switch off, low voltage alarm and electrode failure warning.
- IP57 waterproof and easy-to-read LCD screen, replaceable electrode.

Model	P-310
Measuring Range	-1.00 ~ 15.00 pH
Resolution	0.01pH
Accuracy	±0.2pH
Temperature Compensation	0 ~ 60 °C
Calibration	1, 2, 3 point
Power	CR2032 button battery
Battery Life	100 hours
IP Rating	IP57
Size & Weight	180×50×20mm / 80g(pH Meter) 200×65×50mm / 140g(Packing)

## Standard Configuration

- |                                                  |        |
|--------------------------------------------------|--------|
| 1.P-310 pocket pH meter                          | 1 unit |
| 2.Backup button battery                          | 2 pcs  |
| 3.pH calibration buffers(pH4.00, pH6.86, pH9.18) | 3 bags |
| 4.Operating manual                               | 1 copy |



## Main Features

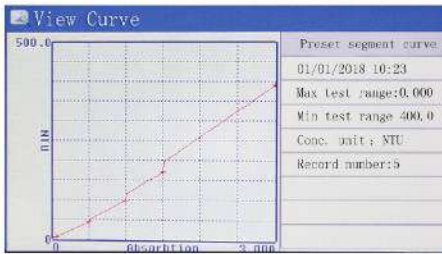
- Mini and ultra-thin design with size 180×50×20 mm.
- Automatic calibration, automatic switch off and low voltage alarm
- IP57 waterproof and easy-to-read LCD screen, replaceable electrode.
- Used to test conductivity value of river water and waste water.

Model	P-311
Measuring Range	(0~10.00) mS/cm: (0~99.9) $\mu$ S/cm (100~999) $\mu$ S/cm (1.00~10.00) mS/cm
Resolution	0.1/1 $\mu$ S/cm, 0.01 mS/cm
Accuracy	$\pm$ 3%FS
Temperature Compensation	0 ~ 60 °C
Calibration	1 point
Power	CR2032 button battery
Battery Life	100 hours
IP Rating	IP57
Size & Dimension	180×50×20mm / 80g(Conductivity Meter) 200×65×50mm / 140g(Packing)

## Standard Configuration

- |                                   |        |
|-----------------------------------|--------|
| 1.P-311 pocket conductivity meter | 1 unit |
| 2.Replaceable battery             | 2 pcs  |
| 3.Operating manual                | 1 copy |

# BT-4000 Series Benchtop Turbidity Meter



## Main Features

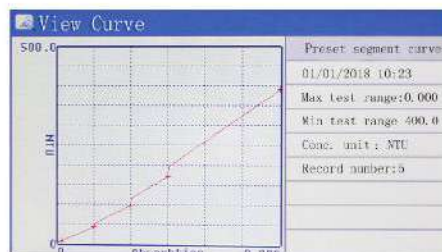
- 4.3 inch color LCD screen with friendly UI makes operations easy.
- Big storage space and support USB storage and data transfer to USB drive.
- There are three standard piecewise curves in the system. Customers can create up to 200 piecewise curves subject to different concentrations which will literally improve measurement precision.
- Adopt ARM9 main control chip which makes operations easy and smooth, instrument respond quickly
- USB and RS232 port for data transfer and printer connection.
- Adopt special and high precision light filter system to ensure the instrument's stability and measurement precision.
- Cold light source, narrowband interference, with long lifetime up to 100,000 hours.

## Specifications

Description	Drinking Water Turbidity	Smart Turbidity	High-precision Turbidity
Model	BT-4000D	BT-4000S	BT-4000H
Minimum readout (NTU)	0.001	0.01	0.001
Measuring range (NTU)	0~10, 10~100	0~10, 10~100, 100~1000	0~10, 10~100, 100~1000
Basic error	±5%FS	±5%FS	±2%FS
Repeatability	≤0.5%	≤0.5%	≤0.5%
Zero drift	±0.5%FS	±0.5%FS	±0.5%FS
Applications	Drinking water and low turbidity solutions, with wider cuvette	Industrial waste water and river water	Industrial waste water and river water



# PT-4000 Series Portable Turbidity Meter

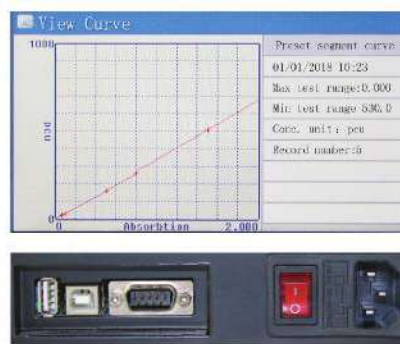


## Main Features

- 4.3 inch color LCD screen with friendly UI makes operations easy.
- Big storage space for local memory.
- There are three standard piecewise curves in the system. Customers can create up to 200 piecewise curves subject to different concentrations which will literally improve measurement precision.
- Adopt ARM9 main control chip which makes operations easy and smooth, instrument respond quickly
- Adopt advanced power management system, can show the battery status in real time and be charged via USB port on PC or vehicle which is very convenient for customers.
- Adopt special and high precision light filter system to ensure the instrument 's stability and measurement precision.
- Cold light source, narrowband interference, with long lifetime up to 100,000 hours.

## Specifications

Description	Smart Turbidity	High-precision Turbidity
Model	PT-4000S	PT-4000H
Minimum readout (NTU)	0.01	0.001
Measuring range (NTU)	5-100, 100-1000	5-100, 100-1000
Basic error	±5%FS	±3%FS
Repeatability	≤0.5%	≤0.5%
Zero drift	±0.5%FS	±0.5%FS
Applications	Industrial waste water and river water	Industrial waste water and river water



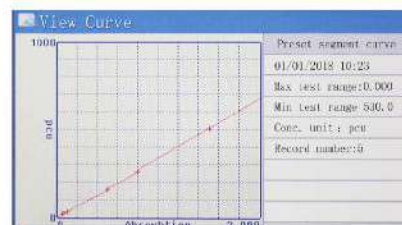
## Main Features

- 4.3 inch color LCD screen with friendly UI makes operations easy.
- Big storage space and support USB storage and data transfer to USB drive.
- There are three standard piecewise curves in the system. Customers can create up to 200 piecewise curves subject to different concentrations which will literally improve measurement precision.
- Adopt ARM9 main control chip which makes operations easy and smooth, instrument respond quickly.
- USB and RS232 port for data transfer and printer connection.
- Adopt special and high precision light filter system to ensure the instrument's stability and measurement precision.
- Cold light source, narrowband interference, with long lifetime up to 100,000 hours.

## Specifications

Description	Drinking Water Colorimeter	Smart Colorimeter	High-precision Colorimeter
Model	BC-4000D	BC-4000S	BC-4000H
Minimum readout (PCU)	0.001	0.01	0.001
Measuring range (PCU)	0-10, 10-100, 100-500	0-10, 10-100, 100-500	0-10, 10-100, 100-500
Basic error	±5%FS	±5%FS	±2%FS
Repeatability	≤0.5	≤0.5%	≤0.5%
Zero drift	±0.5%FS	±0.5%FS	±0.5%FS
Applications	Drinking water and low chroma solutions, with wider cuvette	Industrial waste water and river water	Industrial waste water and river water

# PC-4000H Portable Colorimeter



## Main Features

- 4.3 inch color LCD screen with friendly UI makes operations easy.
- Big storage space for local memory.
- There are is standard curve in the system. Customers can create up to 200 piecewise curves subject to different concentrations which will literally improve measurement precision.
- Adopt ARM9 main control chip which makes operations easy and smooth, instrument respond quickly.
- Adopt advanced power management system, can show the battery status in real time and be charged via USB port on PC or vehicle which is very convenient for customers.
- Adopt special and high precision light filter system to ensure the instrument 's stability and measurement precision.
- Cold light source, narrowband interference, with long lifetime up to 100,000 hours.

## Specifications

Description	High-precision Colorimeter
Model	PC-4000H
Minimum readout (PCU)	0.001
Measuring range (PCU)	0-200
Basic error	±3%FS
Repeatability	≤0.5%
Zero drift	±0.5%FS
Applications	Industrial waste water and river water

## S-100 Intelligent Stirrer



For regular purposes in laboratory and outdoors, can be put in the incubators and used together with pH/ion/DO meter.

### Specifications

Speed range	0 ~ 2300r/min (no load)
Maximum mixing capacity	1000ml
Working plate diameter	Φ100mm
Maximum working current	150mA
Maximum power consumption	0.9W
Power adapter	DC 12V power adapter
Dimensions & Weight	165 x 125 x 65 mm/700g

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